

## JFW

**§**

Group Art Unit: 1644

Attorney  
Docket: 29993

For: Antibodies And Pharmaceutical Compositions  
Containing Same Useful For Inhibiting Activity Of  
Metalloproteins

Examiner: Not Yet Assigned

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,

*Martin D. Moynihan*  
Martin D. Moynihan  
Registration No. 40,338

Dated: June 3, 2007

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Application Number	10/551,715
Filing Date	October 3, 2005
First Named Inventor	Irit SAGI et al
Art Unit	1644
Examiner Name	Not yet Assigned
Attorney Docket Number	29993

Sheet	1	of	8
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## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code* Number* Kind Code* (if known)				
/Moham	1	EP 0757984	02-12-1997	Sakaki et al.		
/MM/	2	EP 0780386	06-25-1997	Bender et al.		
	3	PCT WO 90/05719	05-31-1990	Campion et al.		
	4	PCT WO 93/20047	10-14-1993	Crimmin et al.		
	5	PCT WO 95/09841	04-13-1995	Crimmin et al.		
	6	PCT WO 95/29689	09-9-1995	Durette et al.		
	7	PCT WO 95/29892	09-9-1995	DeCicco et al.		
	8	PCT WO 96/06074	02-29-1996	Beckett et al.		
	9	PCT WO 97/24117	07-10-1997	Groneberg et al.		
/MM/	10	PCT WO 97/49679	12-31-1997	Takahashi et al.		
Examiner Signature	/Mohammad Meah/			Date Considered	02/23/2008	

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<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet		2	Of	8	Complete if Known Application Number 10/551,715 Filing Date October 3, 2005 First Named Inventor Irit SAGI et al Group Art Unit 1644 Examiner Name Not yet Assigned Attorney Docket Number 29993	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
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/MM/	11	Mohler et al. "Protection Against A Lethal Dose of Endotoxin by An Inhibitor of Tumour Necrosis Factor Processing", Nature, 370: 218-220, 1994.				
	12	Mometeau et al. "Both-Faces Hindered Porphyrins. Part I. Synthesis and Characterization of Basket-Handle Porphyrins and Their Iron Complexes", Journal of Chemical Society Perkin Transactions, 1: 189-196, 1983.				
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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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Filing Date	October 3, 2005
First Named Inventor	Irit SAGI et al
Group Art Unit	1644
Examiner Name	Not yet Assigned
Attorney Docket Number	29993



Sheet	3	Of	8
<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
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/MM/	26	Edlund et al. "Cell-Specific Expression of the Rat Insulin Gene: Evidence for Role of Two Distinct 5S <sup>+</sup> (Prime) Flanking Elements", Science, 230(4728): 912-916, 1985.	
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/MM/	41	High "Gene Therapy: A 2001 Perspective", Haemophilia, 7(Suppl.1): 23-27, 2001.	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet		4	Of	8	Complete if Known	
Application Number		10/551,715				
Filing Date		October 3, 2005				
First Named Inventor		Irit SAGI et al				
Group Art Unit		1644				
Examiner Name		Not yet Assigned				
Attorney Docket Number		29993				
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/MM/	42	Hill et al. "Inhibition of Bone Resorption In Vitro by Selective Inhibitors of Gelatinase and Collagenase", Biochemical Journal, 308: 167-175, 1995.				
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Substitute for form 1448A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	10/551,715
		Filing Date	October 3, 2005
		First Named Inventor	Irit SAGI et al
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/MM/	57	Marks et al. "By-Passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling", Bio/Technology, 10: 779-783, 1992.	
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/MM/	74	Presta "Antibody Engineering", Current Opinion in Structural Biology, 2: 593-596, 1992.	

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/MM/	75	Rasmussen et al. "Matrix Metalloproteinase Inhibition as A Novel Anticancer Strategy: A Review With Special Focus on Batimastat and Marimastat", <i>Pharmacology &amp; Therapy</i> , 75(1): 69-75, 1997.	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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## Complete if Known

Application Number	10/551,715
Filing Date	October 3, 2005
First Named Inventor	Irit SAGI et al
Group Art Unit	1644
Examiner Name	Not yet Assigned
Attorney Docket Number	29993



Sheet	7	Of	8
<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/MM/	91	Verhoeven et al. "Reshaping Human Antibodies: Grafting An Antilysozyme Activity", Science, 239(4847): 1534-1536, 1988.	
	92	Walakovits et al. "Detection of Stromelysin and Collagenase in Synovial Fluid From Patients With Rheumatoid Arthritis and Posttraumatic Knee Injury", Arthritis and Rheumatism, 35(1): 35-42, 1992.	
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	94	Whitlow et al. "Single-Chain Fv Proteins and Their Fusion Proteins", Methods: A Companion to Methods in Enzymology, 2(2): 97-105, 1991.	
	95	Will et al. "The Soluble Catalytic Domain of Membrane Type I Matrix Metalloproteinase Cleaves the Propeptide of Progelatinase A and Initiates Autoproteolytic Activation", The Journal of Biological Chemistry, 271(29): 17119-17123, 1996.	
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	97	Winter et al. "Man-Made Antibodies", Nature, 349: 293-299, 1991.	
	98	Zabinsky et al. "Multiple-Scattering Calculations of X-Ray-Absorption Spectra", Physical Review B, 52(4): 2995-3009, 1995.	
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	105	Bode et al. "Endoproteinase-Protein Inhibitor Interactions", APMS, 107: 3-10, 1999.	
V	106	Banerji et al. "A Lymphocyte-Specific Cellular Enhancer Is Located Downstream of the Joining Region in Immunoglobulin Heavy Chain Genes", Cell, 33: 729-740, 1983.	
/MM/	107	Battersby et al. "Synthetic Studies Related to Myoglobin: Syntheses of Bridged Porphyrin Systems", Journal of the Chemical Society, Chemical Communications, P.879-891, 1976.	

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/MM/	108	Battersby et al. "Sythetic Routes to Singly and Doubly Bridged Porphyrins", Tetrahedron Letters, 34: 3169-3172, 1978.				
	109	Belaouaj et al. "Human Macrophage Metalloelastase. Genomic Organization, Chromosomal Location, Gene Linkage, and Tissue-Specific Expression", The Journal of Biological Chemistry, 270(24): 14568-14575, 1995.				
	110	Bird et al. "Single-Chain Antigen-Binding Proteins", Science, 242(4877): 423-426, 1988.				
	111	Bode et al. "The X-Ray Crystal Structure of the Catalytic Domain of Human Neutrophil Collagenase by A Substrate Analogue Reveals the Essentials for Catalysis and Specificity", The EMBO Journal, 13(6): 1263-1269, 1994.				
	112	Bode et al. "Structural Properties of Matrix Metalloproteinases", CMLS, Cellular and Molecular Life Sciences, 55: 639-652, 1999.				
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	115	Brown et al. "Potent and Selective Mechanism-Based Inhibition of Gelatinases", Journal of the American Chemical Society, 122: 6799-6800, 2000.				
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/MM/	122	Lecas et al. "Condensation D'Acides Amines sur des Meso-Amino-2-Phenyl Porphyrines", Tetrahedron Letters, 26(8): 1019-1022, 1985.				



Signature	/Mohammad Meah/	Considered	02/23/2008
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